PATENT COOPERATION TREATY PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	TOT Miller To and Rules 2	+3 and 44)
Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
119469	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/	year) (Earliest) Priority Date (day/month/year)
PCT/AU2004/001428	20 October 2004	20 October 2003
Applicant		
NAUTITECH PTY LTD et	al .	
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This international search report has been portained 18. A copy is being transmitted to	repared by this International Searching At	athority and is transmitted to the applicant according to
This international search report consists of	or cau.	
	opy of each prior art document cited in thi	
		s report.
1. Basis of the report		
a. With regard to the language, the int	ternational search was carried out on the h	pasis of the international application in the language in which
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	· //	lation of the international application furnished to this
b. With regard to any nucleotide	and/or amino acid sequence disclosed in	n the international application, see Box No. I.
2. Certain claims were found up		4 .
3. Unity of invention is lacking		•
	(dee box No. III).	
4. With regard to the title,		"··
X the text is approved as submitte	ed by the applicant.	4
the text has been established by	this Authority to read as follows:	·
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With regard to the abstract,		
the text is approved as submitted	d butho applies t	
the text has been established, ac one month from the date of mail	cording to Rule 38.2(b), by this Authority ling of this international search report, sub	as it appears in Box No. IV. The applicant may, within omit comments to this Authority.
. With regard to the drawings,	*	
Topac to the drawings,		
a. the figure of the drawings to be publis	shed with the abstract is Figure No.2	
as suggested by the app		
as selected by this Auth	ority, because the applicant failed to sugg	and a
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["]	ority, because this figure better characteri	zes the invention.
b. none of the figures is to be publis	shed with the abstract.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001428

Box No. IV Text of the Abstract (Continuation of item 5 of the first sheet)

Stand alone decoupling clutch (10) is used in drive shafts, eg of watercraft. Clutch (10) is separate from any gearbox, etc, does not change the direction of rotation of the drive shaft, and has a single clutch area which allows slippage at any speed or torque. Electronic control system (44) controls slippage of clutch (10) providing for low speed operation, high energy launches, driveline protection, etc. Slip speed is controlled by sensing input shaft speed (38) and output propeller speed (40) and altering hydraulic pressure accordingly on a clutch-compressing piston by opening direct-acting, high flow, electro-hydraulic solenoids (36).

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Α.	CLASSIFICATION OF SUBJECT MATTE	R		
Int. Cl. 7:	B63H 23/30, F16D 48/06, 25/0638			
According to	o International Patent Classification (IPC) or to	both national classification and IPC	•	
В	FIELDS SEARCHED			
Minimum doc	cumentation searched (classification system followed	by classification symbols)		
Refer to ele	ectronic databases consulted below.			
Documentatio	on searched other than minimum documentation to the	ne extent that such documents are included	in the fields searched	
Delwein W	a base consulted during the international search (nar orld Patent Index and USPTO and esp@cee, shaft, speed, rpm, revs and similar terms	ne of data base and, where practicable, sea E Internet sites: using keywords: cl	arch terms used) utch, control, regulate, vary,	
C. ,	DOCUMENTS CONSIDERED TO BE RELEVAN	NT		
Category*	Category* Citation of document, with indication, where appropriate, of the relevant passages			
X, Y	US 5474480 A (SCHWARZ et al) 12 De See whole document, but in particular li column 4.	5-25 of 1-8		
X, Y	US 3548987 A (ERICKSON et al) 22 De See whole document.	ecember 1970	1-8	
X, Y	US 4305710 A (SCHNEIDER) 15 Decer See whole document.	mber 1981	1-8	
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* Special candocument not consider the special candocument appropriate the special candocument or which is another circumstance.	are documents are listed in the continual alegories of cited documents: t defining the general state of the art which is dered to be of particular relevance plication or patent but published on or after the "X" nal filing date which may throw doubts on priority claim(s) "Y" is cited to establish the publication date of tation or other special reason (as specified) referring to an oral disclosure, use, exhibition hears "&"	later document published after the internation conflict with the application but cited to undunderlying the invention document of particular relevance; the claimed or cannot be considered to involve an inventione document of particular relevance; the claimed involve an inventive step when the document such documents, such combination being obviousment member of the same patent family	d invention cannot be considered novel ive step when the document is taken invention cannot be considered to is combined with one or more other.	
but later th	published prior to the international filing date nan the priority date claimed		÷	
November	l completion of the international search	Date of mailing of the international s		
	g address of the ISA/AU		DEC 2004	
JSTRALIAN P BOX 200, W	PATENT OFFICE ODEN ACT 2606, AUSTRALIA oct@ipaustralia.gov.au	Authorized officer I.A. KILBEY		
csimile No. (0)	2) 6285 3929	Telephone No : (02) 6283 2115		

International application No.

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IN'I LRNATIONAL SEARCH REPORT

Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
US	5474480	DE	4125432	EP	595977	WO	9302914
US	4305710	DE	3022075	GB	2053385	JP	56003350
Due to	data integration issue	es this fam	ily listing may n	ot include 10 o	digit Australian a	pplications fi	led since May 2001.